## Water Quality Platform

### Danaher Corporation

**Dental**
- Dental
  - Kerr
  - Nobel Biocare
  - Ormco
  - DEXIS

**Environmental**
- Water Quality
  - HACH
  - Trojan technologies
  - ChemTreat
  - OTT

**Life Sciences & Diagnostics**
- Diagnostics
  - Beckman Coulter
  - Leica Biosystems
  - Radiometer
  - SCIEX
  - Beckman Coulter Life Sciences
  - Molecular Devices

**Industrial Technologies**
- Product ID
  - Videojet
  - ESKO
  - X-Rite
  - PANTONE®
Hydromet Group

OTT
Integrated in Jul, 2015

Hydrolab
Loveland USA
Water Quality Instrumentation

Sutron
Sutron USA
Water Quantity Telemetry, Meteorology, Air Quality Instrumentation

Kempten
Kempten Germany
Water Quantity Instrumentation, Global Headquarters

Fellbach
Fellbach Germany
Meteorology Instrumentation

Vienna
Vienna Austria
Agro-Met Telemetry Instrumentation
Xpert/9210/8310/7310 Dataloggers

Powerful Programmable Loggers

- Xpert

- 9210B – Xlite
  (Shown with and without enclosure)

- 8310
  (Shown with and without enclosure)

- 7310
Sutron’s SatLink3 datalogger with built-in GOES satellite transmitter is especially designed for hydrology, meteorology and environment monitoring.
SatLink3 does everything an SL2 did with the following enhancements:

- Wi-Fi for operation with wireless devices
- Expanded measurements from 16 to 32
- Expanded SDI capacity with 2 independent SDI-12 inputs
- Optional cell/Iridium modems for redundant 2-way communications
- Expanded log from 120,000 to 1,000,000 readings
- Improved analog accuracy & additional analog channels
- Certified for GOES, EUMETSAT 1200, and INSAT.

**Linkcomm Mobile App**

- Wi-Fi connection to Apple IOS or Android Device with supplied Linkcomm App.
SatLink3 supports GOES, Iridium, and Cellular transmission options all with one datalogger!
Designed for GOES Satellite applications where an external data logger is needed...
SL3 Variants and Options

Full featured Transmitter/Logger (SL3-1)

SL3 in Enclosure with Display
SL3 in Enc with no Display

Transmitter only (SL3-XMTR-1)

Option modules
- Iridium
- Cellular
- Programmable Voltage Reference
Sutron’s X-Link product line, offers you an all-in-one data logger with built-in Measurements, Telemetry, and Solar Regulator using Wi-Fi and Linkcomm Mobile App.

Telemetry Options
- GPRS/HSPA
- CDMA
- Iridium Satellite

Applications
- Ground water systems
- Rainfall system
- Surface water system

Measurement Capabilities
- Instantaneous
- Averages
- Min/Max
Sutron’s XLink 100/500 product family offers a cost-effective way to measure, compute, log and transmit data from remote locations. The product comes in two model configurations to fit application needs and budget constraints.
XLink-500

- Supports all XLink-100 functionality
- Internal solar regulator to easily, and cost effectively, recharge your battery (handles up to 20 watts solar panels).
- Lightning protection, from direct or indirect hits, on all pins.
- 24 Bit ADC for high resolution analog (Single Ended, Differential and 4-20mA) signal measurements.
- Protected 12V – Separate power to sensors with cutoff protection.
- RS-232 connection to external modems, displays and others through Python.
- Custom programming using Python: Supports applications beyond standard configuration, transmissions and measurements.

Optimized for simple met and hydrologic applications with broad or custom measurements requirement.

(CE Certified)
XLink-100

Entry level logger optimized for simple met and hydrological applications utilizing smart sensors

- Removable Power Terminal Block. Easily remove power while working with the unit.
- Low quiescence current (<1mA typ @ 12.5VDC)
- Sturdy and Small foot print saving you cabinet space

- Digital IO: TB, Wind Speed and Direction, SCADA
- Smart sensors: SDI-12 (switchable power)
- Smart sensors: RS-485\MODBUS
- USB Host connector for instantaneous setup and data retrieval without a PC.
- Expansion Port: Connect to SPI displays or sensors
- LinkComm (PC, iPhone or Android) enables secure and easy remote configuration and data access and on site connectivity via Wi-Fi, USB or Serial.
- Field replaceable, plug-n-play modems allows you to keep up with technology and the freedom to change the service provider.
- Flexible transmission (HTTP(s), TCP/IP, FTP, SMS) and data format (SHEF, SHEFFIX, Pseudo-binary, MIS, ASCII, CSV)

© Copyright OTT Hydromet 2015
Satlink 3 New Functionality- Python

SL3/XLink100/500 Python Scripting Language

- What is it? It is a language that permits customers to write simple programs (Scripts).
- Adds capability to SL3 to handle tasks that previously was not possible with a Satlink 2 or Satlink 3.
- Scripts may be written and tested on a PC and easily incorporated into the system.
- Supports 2 types of script applications: Measurement Scripts and Scheduled Scripts.

Applications:
- Alarm activities such as triggering samplers
- Read and parse RS-232 sensors
- Gate Control
- Custom Transmit Formats
- Special Calculations such as Sun Duration or Dew Point Calculations
- Displays
Integrated Geo-stationary antenna with built-in GPS

- Transmits from a Data Collection Platform (DCP) to any Geostationary Satellite: GOES, METEOSAT, Himawari, FengYun …etc
- Beamwidth wide enough to illuminate multiple satellites
- Built-in Active GPS antenna allows uninterrupted GPS signal reception, for precise time synchronization
- Waterproof, UV resistant enclosure with corrosion resistant aluminum mounting bracket with 316 stainless steel hardware for extreme meteorological conditions
- Minimal aiming required
- Gain less than a Yagi, requires more power.
- Shape prevents snow or debris build up

CE, FCC/ISED Certified and RoHS Compliant
Hydromet Cloud Monitoring Solution

- Receive, Ingest, Decode, Process, Display, Store measurement data
- Data Reporting, Alarms Setup, Advanced Computations, Data Correction

Applications

**Hydrology** – water level, flow/velocity, and precipitation

**Groundwater** – water level and water quality

**Water quality** – pH, DO, conductivity, salinity, temperature, turbidity, nutrients, …

**Meteorology** – air temperature, relative humidity, wind speed, wind direction, barometric pressure, …
Thank You!